



Louisville Metro Air Pollution Control District
701 West Ormsby Avenue, Suite 303
Louisville, Kentucky 40203-3137



Federally Enforceable District Origin Operating Permit (FEDOOP)

STAR Exempt

Permit No.: O-0016-21-F

Plant ID: 0016

Effective Date: 05/04/2021

Expiration Date: 05/31/2026

Permission is hereby given by the Louisville Metro Air Pollution Control District to operate the process(es) and equipment described herein which are located at:

Source/Owner: Anderson Wood Products Company
1381 Beech Street
Louisville, KY 40211

The applicable procedures of District Regulation 2.17 regarding review by the U.S. EPA and public participation have been followed in the issuance of this permit. Based on review of the application on file with the District, permission is given to operate under the conditions stipulated herein. If a renewal permit is not issued prior to the expiration date, the owner or operator may continue to operate in accordance with the terms and conditions of this permit beyond the expiration date, provided that a complete renewal application is submitted to the District no earlier than twelve months and no later than ninety days prior to the expiration date.

Emission limitations to qualify for non-major status:

Pollutant: PM₁₀
Tons/year: <25

Application No.: See **Application and Related Documents** table.

Public Notice Date: 03/24/2021

Permit writer: Randy Schoenbaechler

DocuSigned by:



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Air Pollution Control Officer
5/4/2021

Table of Contents

Permit Revisions and Changes.....	4
Construction Permit Summary.....	4
Application and Related Documents	5
Abbreviations and Acronyms	6
Preamble	7
General Conditions	7
Plantwide Requirements	11
Facility Description.....	11
Applicable Regulations.....	11
Plantwide Specific Conditions.....	12
S1. Standards.....	12
S2. Monitoring and Record Keeping	13
S3. Reporting.....	14
Emission Unit U1: Pneumatic Conveying System	15
Applicable Regulations.....	15
Equipment.....	15
Control Devices	15
U1 Specific Conditions	16
S1. Standards.....	16
S2. Monitoring and Record Keeping	16
S3. Reporting.....	18
Emission Unit U2: Wood-Fired Boiler	20
Applicable Regulations.....	20
Equipment.....	20
Control Devices	20
U2 Specific Conditions	21
S1. Standards.....	21
S2. Monitoring and Record Keeping	26
S3. Reporting.....	28
Emission Unit U3: Truck Loading.....	32
Applicable Regulations.....	32
Equipment	32

U3 Specific Conditions	33
S1. Standards	33
S2. Monitoring and Record Keeping	33
S3. Reporting	34
Emission Unit U4: Spray application of wood stabilizer	35
Applicable Regulations	35
Equipment	35
U4 Specific Conditions	36
S1. Standards	36
S2. Monitoring and Record Keeping	36
S3. Reporting	36
Emission Unit U5: Cold Solvent Vapor Degreaser	38
Applicable Regulations	38
Equipment	38
U5 Specific Conditions	39
S1. Standards	39
S2. Monitoring and Record Keeping	40
S3. Reporting	41
Insignificant Activities	42
Attachment A: Calculation Methodologies	43
Attachment B: Woodworking Equipment	50
Fee Comment	53

Permit Revisions and Changes

Permit No.	Public Notice Date	Issue Date	Change Type	Description/Scope
O-0016-15-F	09/01/2015	10/02/2015	Initial	Initial Permit Issuance
O-0016-20-F	03/24/2021	05/04/2021	Renewal	Permit Renewal and removal of Greenhouse gas requirements

Construction Permit Summary

Permit No.	Issue Date	Description
454-74-C	8/28/1974	One (1) process cyclone (B)
456-74-C	8/28/1974	One (1) process cyclone (C)
458-74-C	8/28/1974	One (1) process cyclone (D)
459-74-C	8/28/1974	Baghouse, Carborundum P.C.D.,model #720 M10
460-74-C	8/28/1974	One (1) process cyclone (F)
620-75-C	11/17/1975	Kewanee Boiler, model #7L289, 15 mmbtu/hr
621-75-C	11/17/1975	Zurn Multiple Cyclone
622-75-C	11/17/1975	Wood Waste Silo
310-76-C	5/5/1976	One (1) truck loading operation to unload wood waste from the silo
189-88-C	12/16/1988	Fabric Filter, make Carter Day,model 72RJ84.
82-89-C	3/30/1989	Spray application of wood stabilizer

Application and Related Documents

Document Number	Date	Description
134134 134262 134297 134467 136227 136242 138704	3/4/2020 3/5/2020 3/6/2020 3/10/2020 3/31/2020 4/1/2020 4/27/2020	Requests for Application
140777	5/15/2020	Permit Application
141541 142307 149112 150102 155253 155250 160672 167480 167479 160518 160676 160670 163047 163789 169344 171175 171792 171975	5/22/2020 6/5/2020 6/29/2020 6/30/2020 7/13/2020 7/13/2020 7/23/2020 7/23/2020 7/23/2020 7/23/2020 7/24/2020 7/24/2020 8/11/2020 8/14/2020 8/26/2020 8/31/2020 9/10/2020 9/15/2020	Requests for Information and Replies

Abbreviations and Acronyms

AP-42	- AP-42, <i>Compilation of Air Pollutant Emission Factors</i> , published by U.S.EPA
APCD	- Louisville Metro Air Pollution Control District
BAC	- Benchmark Ambient Concentration
BACT	- Best Available Control Technology
Btu	- British thermal unit
CEMS	- Continuous Emission Monitoring System
CFR	- Code of Federal Regulations
CO	- Carbon monoxide
District	- Louisville Metro Air Pollution Control District
EA	- Environmental Acceptability
gal	- U.S. fluid gallons
GHG	- Greenhouse Gas
HAP	- Hazardous Air Pollutant
Hg	- Mercury
hr	- Hour
in.	- Inches
lbs	- Pounds
l	- Liter
LMAPCD	- Louisville Metro Air Pollution Control District
mmHg	- Millimeters of mercury column height
MM	- Million
(M)SDS	- (Material) Safety Data Sheet
NAICS	- North American Industry Classification System
NO _x	- Nitrogen oxides
PM	- Particulate Matter
PM ₁₀	- Particulate Matter less than 10 microns
PM _{2.5}	- Particulate Matter less than 2.5 microns
ppm	- parts per million
PSD	- Prevention of Significant Deterioration
psia	- Pounds per square inch absolute
QA	- Quality Assurance
RACT	- Reasonably Available Control Technology
SIC	- Standard Industrial Classification
SIP	- State Implementation Plan
SO ₂	- Sulfur dioxide
STAR	- Strategic Toxic Air Reduction
TAC	- Toxic Air Contaminant
UTM	- Universal Transverse Mercator
VOC	- Volatile Organic Compound
w.c.	- Water column
year	- Any period of twelve consecutive months, unless "calendar year" is specified
yr	- Year, or any 12 consecutive-month period, as determined by context

Preamble

This permit covers only the provisions of Kentucky Revised Statutes Chapter 77 Air Pollution Control, the regulations of the Louisville Metro Air Pollution Control District (District) and, where appropriate, certain federal regulations. The issuance of this permit does not exempt any owner or operator to whom it has been issued from prosecution on account of the emission or issuance of any air contaminant caused or permitted by such owner or operator in violation of any of the provisions of KRS 77 or District regulations. Any permit shall be considered invalid if timely payment of annual fees is not made. The permit contains general permit conditions and specific permit conditions. General conditions are applicable unless a more stringent requirement is specified elsewhere in the permit.

General Conditions

- G1. The owner or operator shall comply with all General Conditions herein and all terms and conditions in the referenced process/process equipment list.
- G2. All terms and conditions in this FEDOOP are enforceable by EPA, except those terms and conditions specified as District-only enforceable, and those which are not required pursuant to the Clean Air Act Amendments of 1990 (CAAA) or any of the Act's applicable requirements.
- G3. All application forms, reports, compliance certifications, and other relevant information submitted to the District shall be certified by a responsible official. If a change in the responsible official (RO) occurs during the term of this permit, or if an RO is added, the owner or operator shall provide written notification (Form AP-100A) to the District within 30 calendar days of such change or addition.
- G4. The owner or operator shall submit an annual compliance certification, signed by the responsible official, to the District, on or before April 15 of the year following the year for which the certification applies. This certification shall include completion of District Form 9440-O.
- G5. Periodic testing, instrumental monitoring, or non-instrumental monitoring, which may include record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstrating continuing compliance with the terms and conditions of this permit.
- G6. The owner or operator shall retain all records required by the District or any applicable requirement, including all required monitoring data and supporting information, for a period of five years from the date of the monitoring, sampling, measurement, report, or application, unless a longer time period for record retention is required by the District or an applicable requirement. Records shall be retrievable within a reasonable time and made available to the District, Kentucky Division for Air Quality, or the EPA upon request.

- G7. The owner or operator shall provide written notification to the District, and receive approval, prior to making any changes to existing equipment or processes that would result in emissions of any regulated pollutant in excess of the allowable emissions specified in this permit.
- G8. This permit may be reissued, revised, reopened, or revoked pursuant to District Regulation 2.17. Repeated violations of permit conditions are sufficient cause for revocation of this permit. The filing of a request by the owner or operator for any reissuance, revision, revocation, termination, or a notification of planned changes in equipment or processes, or anticipated noncompliance shall not alter any permit requirement.
- G9. Except as otherwise specified or limited herein, the owner or operator shall not allow or cause the emissions to equal or exceed either 10 tons per year, or such lesser quantity as the EPA has established by rule, of any one Hazardous Air Pollutant (HAP) or 25 tons per year of all HAPs combined. Fugitive HAP emissions shall be included in this limit. HAPs are listed in section 112(b) of the CAAA and as amended in 40 CFR 63, Subpart C.
- G10. Except as otherwise specified or limited herein, the owner or operator shall not allow or cause the emissions to equal or exceed 100 tons per year of any regulated pollutant, including particulate matter, PM₁₀, PM_{2.5}, sulfur dioxide, carbon monoxide, nitrogen oxides, lead, hydrogen sulfide, gaseous fluorides, total fluorides, or Volatile Organic Compounds (VOC); any pollutant subject to any standard in District Regulation 7.02; or any substance listed in sections 112(r), 602(a) and 602(b) of the CAAA. Fugitive emissions shall be included in these limits for source categories listed in District Regulation 2.16.
- G11. Unless specified elsewhere in this permit, the owner or operator shall complete required monthly record keeping within 30 days following the end of each calendar month.
- G12. Unless specified elsewhere in this permit, the owner or operator shall submit semi-annual reports demonstrating compliance with the emission limitations specified. The report shall contain monthly and consecutive 12-month totals for each pollutant that has a federally enforceable limitation on the potential to emit. All reports shall include the company name, plant ID number, and the beginning and ending date of the reporting period. The compliance reports shall clearly identify any deviation from a permit requirement or a declaration that there were no such deviations. All compliance reports shall include the following per Regulation 2.17, section 3.5.
- A certification statement: "Based on information and belief formed after reasonable inquiry, I certify that the statements and information in this document are true, accurate, and complete", and
 - The signature and title of a responsible official of the company.

The semi-annual compliance reports are due on or before the following dates of each calendar year:

<u>Reporting Period</u>	<u>Report Due Date</u>
January 1 - June 30	August 29
July 1 - December 31	March 1 of the following year

G13. The owner or operator shall comply with all applicable requirements of the following federally enforceable District Regulations:

Regulation	Title
1.01	General Application of Regulations and Standards
1.02	Definitions
1.03	Abbreviations and Acronyms
1.04	Performance Tests
1.05	Compliance With Emissions Standards and Maintenance Requirements
1.06	Source Self-Monitoring, Emission Inventory Development and Reporting
1.07	Excess Emissions During Startups, Shutdowns, and Upset Conditions
1.08	Administrative Procedures
1.09	Prohibition of Air Pollution
1.10	Circumvention
1.11	Control of Open Burning
1.14	Control of Fugitive Particulate Emissions
1.18	Rule Effectiveness
1.19	Administrative Hearings
2.01	General Application (Permit Requirements)
2.02	Air Pollution Regulation Requirements and Exemptions
2.03	Authorization to Construct or Operate; Demolition/Renovation Notices and Permit Requirements
2.06	Permit Requirements – Other Sources
2.09	Causes for Permit Modification, Revocation, or Suspension
2.10	Stack Height Considerations
2.11	Air Quality Model Usage
3.01	Ambient Air Quality Standards
4.01	General Provisions for Emergency Episodes
4.02	Episode Criteria
4.03	General Abatement Requirements
4.04	Particulate and Sulfur Dioxide Reduction Requirements
4.05	Hydrocarbon and Nitrogen Oxides Reduction Requirements
4.06	Carbon Monoxide Reduction Requirements
4.07	Episode Reporting Requirements
6.01	General Provisions (Existing Affected Facilities)
6.02	Emission Monitoring for Existing Sources
7.01	General Provisions (New Affected Facilities)

- G14. The owner or operator shall comply with all applicable requirements of the following District-only enforceable regulations:

Regulation	Title
1.12	Control of Nuisances
1.13	Control of Objectionable Odors
2.08	Emission Fee, Permit Fees and Permit Renewal Procedures
2.17	Federally Enforceable District Origin Operating Permits
5.00	Definitions
5.01	General Provisions
5.02	Adoption and Incorporation by Reference of National Emission Standards for Hazardous Air Pollutants
5.14	Hazardous Air Pollutants and Source Categories
5.15	Chemical Accident Prevention Provisions
5.20	Methodology for Determining Benchmark Ambient Concentration of a Toxic Air Contaminant
5.21	Environmental Acceptability for Toxic Air Contaminants
5.22	Procedures for Determining the Maximum Ambient Concentration of a Toxic Air Contaminant
5.23	Categories of Toxic Air Contaminants
7.02	Adoption and Incorporation by Reference of Federal New Source Performance Standards

- G15. The owner or operator shall submit emission inventory reports, as required by Regulation 1.06, if so notified by the District.
- G16. The owner or operator shall submit timely reports of abnormal conditions or operational changes that may cause excess emissions, as required by Regulation 1.07.
- G17. Applications, reports, test data, monitoring data, compliance certifications, and any other document required by this permit shall be submitted to:

***Air Pollution Control District
701 W. Ormsby Avenue, Suite 303
Louisville, Kentucky 40203-3137***

Plantwide Requirements**Facility Description**

The source creates dimension woods for component parts, examples, furniture, stair rails, and wood panels.

Applicable Regulations

DISTRICT-ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
1.14	Control of Fugitive Particulate Emissions	1, 2, 3, 4, 8, 9
2.17	Federally Enforceable District Origin Operating Permits	1 through 9
5.00	Definitions	1, 2

Plantwide Specific Conditions

S1. Standards¹

[Regulation 2.17, section 5.1]

a. CO

- i. The owner or operator shall not allow or cause the plantwide CO emissions to equal to exceed 25 tons during any consecutive 12-month period.
[Regulation 5.00, section 1.13.5.1]

b. NO_x

- i. The owner or operator shall not allow or cause the plantwide NO_x emissions to equal to exceed 25 tons during any consecutive 12-month period.
[Regulation 5.00, section 1.13.5.1]

c. PM/PM₁₀/PM_{2.5}

- i. The owner or operator shall not allow or cause the plantwide PM or PM_{2.5} emissions to equal to exceed 25 tons during any consecutive 12-month period. [Regulation 5.00, section 1.13.5.1]
- ii. The owner or operator shall not allow or cause the plantwide PM₁₀ emissions to equal to exceed 25 tons during any consecutive 12-month period. [Regulation 2.17, section 5.1] [Regulation 5.00, section 1.13.5.1]
- i. The owner or operator shall not cause, allow, or permit any materials to be handled, transported or stored; or a road to be used without taking reasonable precautions to prevent particulate matter from becoming airborne beyond the work site. Such precautions shall include, where applicable, but shall not be limited to the following:
[Regulation. 1.14, section 2.1]
 - (1) Applying and maintaining asphalt, oil, water or suitable chemicals on roads, material stockpiles, and other surfaces which can create airbourne dusts, [Regulation 1.14, section 2.1.2]
 - (2) Installing and using hoods, fans, and fabric filters to enclose and vent the handling of dusty materials; using water sprays or other measures to suppress the dust emissions during handling. Adequate

¹ The Company requested the Plantwide CO, NO_x, PM, PM₁₀, and PM_{2.5} emissions limit of less than 25 tpy each to be STAR exempt.

- containment methods shall be employed during sandblasting or other similar operations, [Regulation 1.14, section 2.1.3]
- (3) Covering at all times, except when loading and unloading, open bodied trucks transporting materials likely to become airborne, [Regulation 1.14, section 2.1.4]
 - (4) Maintaining paved roadways in a clean condition, [Regulation 1.14, section 2.1.6]
 - (5) Removing earth or other material from paved streets which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water. [Regulation 1.14, section 2.1.7]
- ii. No person shall cause or permit the discharge of fugitive emissions in excess of 20% opacity. [Regulation 1.14, section 2.3]
 - iii. No person shall cause or permit the discharge of visible fugitive emissions beyond the lot line of the property on which the emissions originate. [Regulation 1.14, section 2.4]

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. CO

- i. The owner or operator shall, monthly, calculate and record the consecutive 12-month plantwide total CO emissions from all emission points including the Wood fired Boiler and Natural Gas fired Boiler by calculating the sum of the 12 consecutive month emissions using the calculation methods in Attachment A unless otherwise approved by the district in writing.

b. NO_x

- i. The owner or operator shall, monthly, calculate and record the consecutive 12-month plantwide total NO_x emissions from all emission points including the Wood fired Boiler and Natural Gas fired Boiler by calculating the sum of the 12 consecutive month emissions using the calculation methods in Attachment A unless otherwise approved by the district in writing.

c. PM/PM₁₀/PM_{2.5}

- i. The owner or operator shall monthly, calculate and record the consecutive 12-month plantwide total PM, PM₁₀, and PM_{2.5} emissions from all emission points including equipment in Unit 1, Unit 2, Unit 3, and the Natural Gas

fired Boiler by calculating the sum of the 12 consecutive month emissions using the calculation methods in Appendix A unless otherwise approved by the district in writing.

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

a. CO

- i. The plantwide 12 consecutive month CO emissions for each month in the reporting period.

b. NO_x

- i. The plantwide 12 consecutive month NO_x emissions for each month in the reporting period.

c. PM/PM₁₀/PM_{2.5}

- i. The plantwide 12 consecutive month PM, PM₁₀, and PM_{2.5} emissions for each month in the reporting period.

Emission Unit U1: Pneumatic Conveying System**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.09	Standards of Performance for Existing Process Operations	1, 2, 3, and 5

Equipment²

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E1B	One (1) process cyclone (B)	1974	6.09	C1 & C2	S1 & S2
E1C	One (1) process cyclone (C)	1974	6.09	C1 & C2	S1 & S2
E1D	One (1) process cyclone (D)	1974	6.09	C1 & C2	S1 & S2
E1F	One (1) process cyclone (F)	1974	6.09	C1 & C2	S1 & S2
E1S	One (1) Wood Waste Silo (Insignificant Activity)	1975	6.09	C2	S2

Control Devices

Control ID	Description	Control Efficiency
C1	Baghouse Carborundum P.C.D., model #720 M10	98%
C2	Fabric Filter make Carter Day, model 72RJ84	98%

² See Attachment B for a list of woodworking equipment at the facility.

U1 Specific Conditions

S1. Standards

[Regulation 2.17, section 5.1]

a. Opacity

- i. The owner or operator shall not allow visible emissions to equal or exceed 20% opacity. [Regulation 6.09, section 3.1]

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall not allow PM emissions to exceed 7.09 lb/hr, based on actual operating hours in a calendar day, per piece of equipment for emission points E1B, E1C, E1D, E1F, and E1S.
[Construction Permit 189-88-C effective 12/16/88]³
- iii. The owner or operator shall not allow PM emissions to exceed 7.0 tons during any consecutive 12-month period from the conveyance of wood waste to the storage silo for emission points E1B, E1C, E1D, E1F, and E1S combined. [Construction Permit 189-88-C effective 12/16/88]

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. Opacity

- i. The owner or operator shall, monthly, conduct a one-minute visible emissions survey, during normal operation, of the emission points. No more than four emission processes/points shall be observed simultaneously. The opacity surveys can be performed on the building exhaust points if the process is inside an enclosure.
- ii. At emissions points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall

³ These emission points should meet the lb/hr PM limit uncontrolled.

perform or cause to be performed a Method 9, in accordance with 40 CFR Part 60, Appendix A, within 24 hours of the initial observation.

- iii. The owner or operator shall maintain records, monthly, of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an emission process/point is not being operated during a given month, then no visible emission survey needs to be performed and a negative declaration shall be entered in the record.

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall, monthly, record the hours of operation of the dust collector systems during the previous month.
- iii. The owner or operator shall, monthly, record the amount in pounds of sawdust unloaded from the wood waste silo for the previous month.
- iv. The owner or operator shall, monthly, calculate and record the total combined controlled and uncontrolled PM emissions from conveyance to

the Silo for the previous month using the methods in Attachment A unless an alternative method is approved in writing by the District.

- v. If there is any time that a control device is bypassed or not in operation when the process is operating, then the owner or operator shall keep a record of the following for each bypass event:
 - (1) Date;
 - (2) Start time and stop time;
 - (3) Identification of the control device and process equipment;
 - (4) PM emissions during the bypass in pounds using the methods in Attachment A unless an alternative method is approved in writing by the District;
 - (5) Summary of the cause or reason for each bypass event;
 - (6) Corrective action taken to minimize the extent or duration of the bypass event; and
 - (7) Measures implemented to prevent reoccurrence of the situation that resulted in the bypass event.
 - (8) If this event is due to an upset condition, you must report as specified in District regulation 1.07, section 4.
- vi. The owner or operator shall, monthly, calculate the previous 12 consecutive month rolling total emissions for conveyance to the Silo.
- vii. The owner or operator shall, monthly, perform a visual inspection of the structural and mechanical integrity of the conveying system and dust collectors for signs of damage, air leakage, corrosion, or other equipment defects, and repair and/or replace defective components as needed. The owner or operator shall, monthly, record the results of the visual inspection.

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

a. Opacity

- i. Identification of all times visible emissions were observed;
- ii. The date, time, and results of each Method 9 that exceeded the opacity standard; and
- iii. Description of any corrective action taken for each exceedance.
- iv. A negative declaration if no deviation occurs during the reporting period.

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall clearly identify all deviations from permit requirements in the annual report and include the following information regarding the visual inspections of structural and mechanical integrity:
 - (1) Emission unit ID number and emission process/point ID number;
 - (2) The date and description of any actions taken to repair the structural and mechanical integrity; or
 - (3) A negative declaration if no repairs were needed.
- iii. The owner or operator shall report the following information regarding PM By-Pass Activity in the annual compliance reports.
 - (1) Number of times the PM vent stream by-passes the control device and is vented to the atmosphere;
 - (2) Duration of each by-pass to the atmosphere;
 - (3) Calculated pound per hour PM emissions for each by-pass; or
 - (4) A negative declaration if no by-passes occurred.
- iv. The owner or operator shall report the monthly tons and 12 consecutive months rolling totals for each month in the reporting period for PM from conveyance to the Silo.

Emission Unit U2: Wood-Fired Boiler**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.07	Standards of Performance for Existing Indirect Heat Exchangers	1 through 4
40 CFR 63 Subpart JJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	63.11196, 63.11201, 63.11205, 63.11214, 63.11223, & 63.11225

DISTRICT ONLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
5.02	Adoption of National Emission Standards for Hazardous Air Pollutants	1, 3.95 and 4

Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E2A	One (1) wood fired boiler, 13.3 MBtu/hr, make Kewanee, model 7L289	1975	6.07 & 40 CFR 63 Subpart JJJJJ	C3	S3

Control Devices

Control ID	Description	Control Efficiency
C3	Multiple Cyclone, Flow 8600 cfm, make Zurn, model MTSA-15-9CYT-STD	70%

U2 Specific Conditions

S1. Standards

[Regulation 2.17, section 5.1]

a. CO

- i. See Plantwide Unit.

b. HAP

- i. In accordance with 40 CFR 63 Subpart JJJJJJ:

You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to this subpart that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in Table 2 to this subpart satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement. [40 CFR 63.11201(b)]

- ii. Table 2 to Subpart JJJJJJ of Part 63 —Work Practice Standards, Emission Reduction Measures, and Management Practices

As stated in 40 CFR 63.11201, you must comply with the following applicable work practice standards, emission reduction measures, and management practices:

If your boiler is in this subcategory .	You must meet the following . . .
14. Existing coal-fired, biomass-fired, or oil-fired boilers with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up	Conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler every 5 years as specified in §63.11223.

If your boiler is in this subcategory .	You must meet the following . . .
16. Existing coal-fired, biomass-fired, or oil-fired boilers (units with heat input capacity of 10 MMBtu/hr and greater), not including limited-use boilers	<p>Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in 40 CFR 63.11237:</p>
	(1) A visual inspection of the boiler system,
	(2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
	(3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
	(4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
	(5) A list of major energy conservation measures that are within the facility's control,
	(6) A list of the energy savings potential of the energy conservation measures identified, and
	(7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

- iii. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11205(a)]
- iv. If you own or operate an existing or new biomass-fired boiler or an existing or new oil-fired boiler, you must conduct a performance tune-up according to 40 CFR 63.11223(b) and you must submit a signed statement in the Notification of Compliance Status report that indicates that you conducted a tune-up of the boiler. [40 CFR 63.11214(b)]
- v. If the existing affected boiler is subject to a work practice or management practice standard of a tune-up, you must achieve compliance with the work practice or management practice standard no later than March 21, 2014. [40 CFR 63.11196(a)(1)]⁴
- vi. For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a performance tune-up according to paragraph (b) of this section and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. [40 CFR 63.11223(a)]
- vii. Except as specified in paragraphs (c) through (f) of this section, you must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. [40 CFR 63.11223(b)]
 - (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to

⁴ The boiler tune-up was conducted on January 26, 2021.

exceed 36 months from the previous inspection.

[40 CFR 63.11223(b)(1)]

- (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
[40 CFR 63.11223(b)(2)]
- (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
[40 CFR 63.11223(b)(3)]
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
[40 CFR 63.11223(b)(4)]
- (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 CFR 63.11223(b)(5)]
- (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section. [40 CFR 63.11223(b)(6)]
 - (a) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. [40 CFR 63.11223(b)(6)(i)]
 - (b) A description of any corrective actions taken as a part of the tune-up of the boiler. [40 CFR 63.11223(b)(6)(ii)]
 - (c) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may

estimate the fuel use by each unit.

[40 CFR 63.11223(b)(6)(iii)]

- (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

[40 CFR 63.11223(b)(7)]

viii. Boilers with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up must conduct a tune-up of the boiler every 5 years as specified in paragraphs (b)(1) through (7) of this section. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed boiler with an oxygen trim system, the first 5-year tune-up must be no later than 61 months after the initial startup. You may delay the burner inspection specified in paragraph (b)(1) of this section and inspection of the system controlling the air-to-fuel ratio specified in paragraph (b)(3) of this section until the next scheduled unit shutdown, but you must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up. [40 CFR 63.11223(c)]

ix. If the existing affected boiler is subject to the energy assessment requirement, you must achieve compliance with the energy assessment requirement no later than March 21, 2014.

[40 CFR 63.11196(a)(3)]⁵

c. NO_x

i. See Plantwide Unit.

d. Opacity

i. The owner or operator shall not cause the emission into the open air of particulate matter from any indirect heat exchanger which is greater than 20% opacity except:

Emissions into the open air of particulate matter from any indirect heat exchanger during building a new fire, cleaning the fire box, or blowing soot for a period or periods aggregating not more than ten minutes in any 60 minutes which are less than 40% opacity.

[Regulation 6.07, section 3.2 through 3.3.1]

e. PM/PM₁₀/PM_{2.5}

⁵ The energy assessment was included in a report submitted to the District on October 15, 2015.

- i. See Plantwide Unit.
 - ii. The owner or operator shall not cause to be discharged into the atmosphere from that affected facility particular matter in excess of 0.52 pounds per million BTU actual total heat input, based on actual operating hours in a calendar day. [Regulation 6.07, Section 3.1]⁶
- f. SO₂**
- i. The owner or operator shall not cause to be discharged into the atmosphere from that affected facility any gases which contain sulfur dioxide in excess of 3.59 pounds per million BTU actual total heat input for combustion of solid fuels, based on actual operating hours in a calendar day. [Regulation 6.07, section 4.1]⁶

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. CO

- i. See Plantwide Unit.

b. HAP

- i. In accordance with 40 CFR 63 Subpart JJJJJ:

You must maintain the records specified in paragraphs (c)(1), (2), (4), and (5) of this section. [40 CFR 63.11225(c)]

- (1) As required in 40 CFR 63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted. [40 CFR 63.11225(c)(1)]
- (2) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR 63.11214 and 40 CFR 63.11223 as specified in paragraphs (c)(2)(i) and (iii) of this section. [40 CFR 63.11225(c)(2)]
 - (a) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's

⁶ The emission point should meet the PM and SO₂ emission standards uncontrolled.

specifications to which the boiler was tuned.

[40 CFR 63.11225(c)(2)(i)]

- (b) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report.

[40 CFR 63.11225(c)(2)(iii)]

- (3) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. [40 CFR 63.11225(c)(4)]

- (4) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. [40 CFR 63.11225(c)(5)]

c. NO_x

- i. See Plantwide Unit.

d. Opacity

- i. The owner or operator shall, monthly, conduct a one-minute visible emissions survey, during normal operation, of the emission points. No more than four emission processes/points shall be observed simultaneously. The opacity surveys can be performed on the building exhaust points if the process is inside an enclosure.
- ii. At emissions points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9, in accordance with 40 CFR Part 60, Appendix A, within 24 hours of the initial observation.
- iii. The owner or operator shall maintain records, monthly, of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an emission process/point is not being operated during a given month, then no visible emission survey needs to be performed and a negative declaration shall be entered in the record.

e. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
 - ii. The owner or operator shall, monthly, perform a visual inspection of the structural and mechanical integrity of the control device for signs of damage, air leakage, corrosion, etc. and repair as needed. The owner or operator shall, monthly, record the results of the visual inspections.
 - iii. The owner or operator shall, monthly, record the hours of operation of the boiler for the previous month.
- f. SO₂**
- i. There are no monitoring requirements for SO₂ compliance.

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

a. CO

- i. See Plantwide Unit.

b. HAP

- i. In accordance with 40 CFR 63 Subpart JJJJJ:

You must submit the notifications specified in paragraphs (a)(1) through (4) of this section to the administrator. [40 CFR 63.11225(a)]

- (1) You must submit all of the notifications in 40 CFR 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to you by the dates specified in those sections except as specified in paragraphs (a)(2) and (4) of this section. [40 CFR 63.11225(a)(1)]
- (2) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard. [40 CFR 63.11225(a)(2)]⁷
- (3) You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in 40 CFR 63.11196 unless you must conduct a performance stack test. If you must conduct a performance stack test, you must submit the Notification of Compliance Status within 60 days of completing the performance stack test. You must submit the Notification of Compliance Status in accordance with paragraphs (a)(4)(i) and (vi)

⁷ The initial notification was received on 3/23/2015.

of this section. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (a)(4)(i) through (v) of this section, as applicable, and signed by a responsible official. [40 CFR 63.11225(a)(4)]

- (a) You must submit the information required in 40 CFR 63.9(h)(2), except the information listed in 40 CFR 63.9(h)(2)(i)(B), (D), (E), and (F). If you conduct any performance tests or CMS performance evaluations, you must submit that data as specified in paragraph (e) of this section. If you conduct any opacity or visible emission observations, or other monitoring procedures or methods, you must submit that data to the Administrator at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)(i)]
- (b) “This facility complies with the requirements in 40 CFR 63.11214 to conduct an initial tune-up of the boiler.” [40 CFR 63.11225(a)(4)(ii)]
- (c) “This facility has had an energy assessment performed according to 40 CFR 63.11214(c).” [40 CFR 63.11225(a)(4)(iii)]
- (d) For units that install bag leak detection systems: “This facility complies with the requirements in 40 CFR 63.11224(f).” [40 CFR 63.11225(a)(4)(iv)]
- (e) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.” [40 CFR 63.11225(a)(4)(v)]
- (f) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.11225(a)(4)(vi)]

EPA Region IV
Director, Air, Pesticides and Toxics Management Division
Atlanta Federal Center
61 Forsyth Street

Atlanta, GA 30303–3104
[40 CFR 63.13(a)]

- ii. All information required to be submitted to the Administrator under this part also shall be submitted to the appropriate State agency of any State to which authority has been delegated under section 112(l) of the Act. The owner or operator of an affected source may contact the appropriate EPA Regional Office for the mailing addresses for those States whose delegation requests have been approved [40 CFR 63.13(b)]⁸
- iii. You must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of this section. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to 40 CFR 63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section.
[40 CFR 63.11225(b)]
 - (1) Company name and address. [40 CFR 63.11225(b)(1)]
 - (2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official: [40 CFR 63.11225(b)(2)]
 - (a) “This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler.” [40 CFR 63.11225(b)(2)(i)]
 - (b) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.” [40 CFR 63.11225(b)(2)(ii)]
 - (c) “This facility complies with the requirement in 40 CFR 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a

⁸ The Louisville Metro APCD is the delegated authority to which the information should be sent in addition to the Region IV office in Atlanta Georgia.

boiler of similar design if manufacturer's recommended procedures are not available.” [40 CFR 63.11225(b)(2)(iii)]

- (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken. [40 CFR 63.11225(b)(3)]

c. NO_x

- i. See Plantwide Unit.

d. Opacity

- i. Identification of all times visible emissions were observed;
- ii. The date, time, and results of each Method 9 that exceeded the opacity standard; and
- iii. Description of any corrective action taken for each exceedance.
- iv. A negative declaration if no deviation occurs during the reporting period.

e. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall clearly identify all deviations from permit requirements in the annual report and include the following information regarding the visual inspections of structural and mechanical integrity:
 - (1) Emission unit ID number and emission process/point ID number;
 - (2) The date and description of any actions taken to repair the structural and mechanical integrity; or
 - (3) A negative declaration if no repairs were needed.

f. SO₂

- i. There are no reporting requirements for SO₂ compliance.

Emission Unit U3: Truck Loading**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.09	Standards of Performance for Existing Process Operations	1, 2, 3, and 5

Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E3A	One (1) Screw Conveyor (Insignificant Activity)	1975	6.09	N/A	N/A
E3B	One (1) Cleated Belt Conveyor (Insignificant Activity)	1975	6.09	N/A	N/A

U3 Specific Conditions

S1. Standards

[Regulation 2.17, section 5.1]

a. Opacity

- i. The owner or operator shall not allow visible emissions to equal or exceed 20% opacity. [Regulation 6.09, section 3.1]

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall not allow PM emissions to exceed 13.36 lb/hr, based on actual operating hours in a calendar day, for emission points E3A and E3B. [Regulation 6.09, section 3.2]⁹

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. Opacity

- i. The owner or operator shall, monthly, conduct a one-minute visible emissions survey, during normal operation, of the emission points. No more than four emission processes/points shall be observed simultaneously. The opacity surveys can be performed on the building exhaust points if the process is inside an enclosure.
- ii. At emissions points where visible emissions are observed, the owner or operator shall initiate corrective action within eight hours of the initial observation. If the visible emissions persist, the owner or operator shall perform or cause to be performed a Method 9, in accordance with 40 CFR Part 60, Appendix A, within 24 hours of the initial observation.
- iii. The owner or operator shall maintain records, monthly, of the results of all visible emissions surveys and tests. Records of the results of any visible emissions survey shall include the date of the survey, the name of the person conducting the survey, whether or not visible emissions were observed, and what if any corrective action was performed. If an emission process/point is not being operated during a given month, then no visible emission survey

⁹ These emission points should meet the lb/hr PM limit uncontrolled

needs to be performed and a negative declaration shall be entered in the record.

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall, monthly, perform a visual inspection of the structural and mechanical integrity of conveyors E3A and E3B for signs of damage, air leakage, corrosion, or other equipment defects, and repair and/or replace defective components as needed. The owner or operator shall, monthly, record the results of the visual inspections.
- iii. The owner or operator shall, monthly, record the amount in pounds of saw dust loaded into trucks from the wood waste storage silo for the previous month.

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

a. Opacity

- i. Identification of all times visible emissions were observed;
- ii. The date, time, and results of each Method 9 that exceeded the opacity standard; and
- iii. Description of any corrective action taken for each exceedance.
- iv. A negative declaration if no deviation occurs during the reporting period.

b. PM/PM₁₀/PM_{2.5}

- i. See Plantwide Unit.
- ii. The owner or operator shall clearly identify all deviations from permit requirements in the annual report and include the following information regarding the visual inspections of structural and mechanical integrity:
 - (1) Emission unit ID number and emission process/point ID number;
 - (2) The date and description of any actions taken to repair the structural and mechanical integrity; or
 - (3) A negative declaration if no repairs were needed.

Emission Unit U4: Spray application of wood stabilizer**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.24	Standards of Performance for Existing Sources Using Organic Materials	1, 2.4, 3.3, and 4

Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E4A	One (1) wood stabilizer spray	1989	6.24	N/A	N/A

U4 Specific Conditions

S1. Standards

[Regulation 2.17, section 5.1]

a. VOC

- i. The owner or operator shall neither discharge into the atmosphere more than three thousand (3000) pounds of organic materials in any one day, nor more than four hundred and fifty (450) pounds in any one hour. Unless the discharge has been reduced by at least 85% by weight, the owner or operator shall not exceed the daily and hourly limits for any Class III solvents of any material containing each such solvent that is employed or applied at this facility. [Regulation 6.24, Section 3.3] ¹⁰
- ii. The owner or operator shall not exceed 6.4 lbs of VOC per hour. [Construction Permit 82-89-C effective 3/30/89] ¹¹
- iii. The owner or operator shall not exceed 6.4 tons of VOC per year. [Construction Permit 82-89-C effective 3/30/89] ¹²

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. VOC

- i. The owner of operator shall, monthly, record the volume of wood stabilizer sprayed.
- ii. If the owner or operator sprays more than 150 gallons of Wood stabilizer per month the owner shall, monthly, calculate and record the monthly and consecutive 12-month rolling total of VOC emissions from the spraying of wood stabilizer.

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

¹⁰ A one-time VOC compliance demonstration was performed for this equipment and the lb/hr and lb/day standard from District Regulation 6.24 should be met uncontrolled.

¹¹ The VOC lb/hr limit from Construction Permit 82-89-C should be met uncontrolled.

¹² The VOC tpy limit from Construction Permit 82-89-C can be exceeded.

a. VOC

- i. The owner or operator shall report the following information regarding the spray application of wood stabilizer:
 - (1) Identification of any deviation from permit limits;
 - (2) The total amount of emissions of VOC in tons for each month in the reporting period;
 - (3) The total amount of emissions of VOC in tons of the 12 consecutive month period for each month in the reporting period;

Emission Unit U5: Cold Solvent Vapor Degreaser**Applicable Regulations**

FEDERALLY ENFORCEABLE REGULATIONS		
Regulation	Title	Applicable Sections
6.18	Standards of Performance for Solvent Metal Cleaning Equipment	1 through 4

Equipment

Emission Point	Description	Install Date	Applicable Regulations	Control ID	Release ID
E5A	One (1) cold solvent vapor degreaser not equipped with a secondary reservoir	2002	6.18	N/A	N/A

U5 Specific Conditions

S1. Standards

[Regulation 2.17, section 5.1]

a. VOC

- i. The owner or operator shall install, maintain, and operate the control equipment as follows: [Regulation 6.18, section 4]
 - (1) The cold cleaner shall be equipped with a tightly fitting cover that is free of cracks, holes, or other defects. If the solvent is agitated or heated, then the cover shall be designed so that it can be easily operated with one hand. [Regulation 6.18, section 4.1.1]
 - (2) The cold cleaner shall be equipped with a drainage facility that is designed so that the solvent that drains off parts removed from the cleaner will return to the cold cleaner. The drainage facility may be external if the District determines that an internal type cannot fit into the cleaning system. [Regulation 6.18, section 4.1.2]
 - (3) A permanent, conspicuous label summarizing the operating requirements specified in section 4.2 of this Regulation shall be installed on or near the cold cleaner. [Regulation 6.18, section 4.1.3]
 - (4) If used, the solvent spray shall be a fluid stream, not a fine, atomized, or shower type spray, at a pressure that does not cause excessive splashing. Flushing of parts using a flexible hose or other flushing device shall be performed only within the freeboard area of the cold cleaner. Solvent flow shall be directed downward to avoid turbulence at the air-solvent interface and to prevent solvent from splashing outside of the cold cleaner. [Regulation 6.18, section 4.1.4]
 - (5) Work area fans shall be located and positioned so that they do not blow across the opening of the cold cleaner. [Regulation 6.18, section 4.1.6]
 - (6) The solvent-containing portion of the cold cleaner shall be free of all liquid leaks. Auxiliary cold cleaner equipment such as pumps, water separators, steam traps, or distillation units shall not have any visible liquid leaks, visible tears, or cracks. [Regulation 6.18, section 4.1.8]
- ii. The owner or operator shall observe at all times the following operating requirements: [Regulation 6.18, section 4.2]
 - (1) Waste solvent shall neither be disposed of nor transferred to another party in a manner such that more than 20% by weight of the waste solvent can evaporate. Waste solvent shall be stored only in a covered container. A covered container may contain a device that

allows pressure relief, but does not allow liquid solvent to drain from the container. [Regulation 6.18, section 4.2.1]

- (2) The solvent level in the cold cleaner shall not exceed the fill line. [Regulation 6.18, section 4.2.2]
- (3) The cold cleaner cover shall be closed whenever a part is not being handled in the cold cleaner. [Regulation 6.18, section 4.2.3]
- (4) Parts to be cleaned shall be racked or placed into the cold cleaner in a manner that will minimize drag-out losses. [Regulation 6.18, section 4.2.4]
- (5) Cleaned parts shall be drained for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping, or rotating, the parts shall be positioned so that the solvent drains directly back to the cold cleaner. [Regulation 6.18, section 4.2.5]
- (6) A spill during solvent transfer shall be cleaned immediately, and the wipe rags or other sorbent material shall be immediately stored in a covered container for disposal or recycling, unless enclosed storage of these items is not allowed by fire protection authorities. [Regulation 6.18, section 4.2.6]
- (7) Sponges, fabric, wood, leather, paper products, and other absorbent material shall not be cleaned in a cold cleaner. [Regulation 6.18, section 4.2.7]

- iii. The owner or operator shall not operate a cold cleaner using a solvent with a vapor pressure that exceeds 1.0 mm Hg (0.019 psi) measured at 20 °C (68 °F). [Regulation 6.18, section 4.3.2]

S2. Monitoring and Record Keeping

[Regulation 2.17, section 5.2]

The owner or operator shall maintain the following records for a minimum of five years and make the records readily available to the District upon request.

a. VOC

- i. The owner or operator shall maintain records that include the following for each purchase: (Regulation 6.18, section 4.4.2)
 - (1) The name and address of the solvent supplier,
 - (2) The date of the purchase,
 - (3) The type of the solvent, and
 - (4) The vapor pressure of the solvent measured in mm Hg at 20 °C (68 °F).
- ii. All records shall be retained for 5 years and made available to the District upon request. (Regulation 6.18, section 4.4.3)

S3. Reporting

[Regulation 2.17, section 5.2]

The owner or operator shall report the following information, as required by General Condition G12:

a. VOC

- i. Emission Unit ID number and emission point ID number;
- ii. The beginning and ending date of the reporting period;
- iii. Any deviation from the control and operational requirements specified.
- iv. If no deviations occur during a semi-annual reporting period, the report shall contain a negative declaration.

Insignificant Activities

Description	Quantity	PTE	Basis
Brazing, Soldering, or Welding Equipment	2	<1 tpy material usage reported by company	Regulation 1.02 Appendix A
Woodworking except for conveying hogging or burning wood/sawdust (See Attachment B for list)	80	Accounted for in conveyance unit	Regulation 1.02 Appendix A
Diesel Storage Tank	1	< 0.01 tpy VOC	Regulation 1.02 Appendix A
Boiler (1.26 MMBTU Natural Gas)	1	NOx 0.54 tpy	Regulation 1.02 Appendix A
Silo E1S (See Emission Unit U1)	1	0.16 PM ₁₀	Regulation 1.02
Screw Conveyor E3A (See Emission Unit U3)	1	0.35 PM ₁₀	Regulation 1.02
Cleated Belt Conveyor E3B (See Emission Unit U3)	1	0.35 PM ₁₀	Regulation 1.02

1. Insignificant activities identified in District Regulation 1.02, Appendix A, may be subject to size or production rate disclosure requirements.
2. Insignificant activities identified in District Regulation 1.02, Appendix A shall comply with generally applicable requirements.
3. The owner or operator shall annually submit an updated list of insignificant activities that occurred during the preceding year, with the compliance certification due April 15th.
4. Emissions from Insignificant Activities shall be reported in conjunction with the reporting of annual emissions of the facility as required by the District.
5. The owner or operator may elect to monitor actual throughputs for each of the insignificant activities and calculate actual annual emissions or use Potential to Emit (PTE) as the annual emissions for each piece of equipment.
6. The District has determined that no monitoring, recordkeeping, or reporting requirements apply to the insignificant activities listed, except for the equipment that has an applicable regulation and permitted under an insignificant activity (IA) unit.

Attachment A: Calculation Methodologies

The following equations shall be used to determine emissions unless other methods are approved in writing by the District. District approved control device efficiencies listed in the permit may be used for emissions captured by the control device from equipment during periods of operation when the controls are in use.

Unit 1

Controlled Conveyance PM, PM₁₀, or PM_{2.5} emissions (lb/period) = (Amount in pounds unloaded from the silo for the period) * (0.575/0.425) * (41/41/1000) * (0.02) * (% Time controlled)

Uncontrolled Conveyance PM, PM₁₀, or PM_{2.5} emissions (lb/period) = (Amount in pounds unloaded from the silo for the bypass period) * (0.575/0.425) * (41/41/1000) * (% Time uncontrolled)

Where: 0.575/0.425 = ratio of product to waste;

41 lb/1000 ft³ product is the emission factor for PM per AP-42 11.12;

Density = 41 lb/ft³;

0.02 = (1-98% control efficiency);

% Time controlled = (Hours of operation – bypass) / (Hours of operation);

% Time uncontrolled = (Hours of bypass) / (Hours of operation)

Controlled Silo loading PM, PM₁₀, or PM_{2.5} emissions (ton/period) = (Amount in pounds unloaded from the silo for the period) * (3.14 lb PM/ton wood dust/ 2000 lb/ton) * (0.001) * (0.02) * (% Time controlled)

Uncontrolled Silo loading PM, PM₁₀, or PM_{2.5} emissions (ton/period) = (Amount in pounds unloaded from the silo for the period) * (3.14 lb PM/ton wood dust/ 2000 lb/ton) * (0.001) * (% Time uncontrolled)

Where: 3.14 equals the assumed PM, PM₁₀, or PM_{2.5} emission loss based on AP-42, 10.9-7

0.001 = ratio of wood dust to wood waste

0.02 = (1-98% control efficiency)

% Time controlled = (Hours of operation – bypass) / (Hours of operation);

% Time uncontrolled = (Hours of bypass) / (Hours of operation)

Unit 2

Wood Boiler Pollutant emissions (ton/period) = Hours of Operation * (13.3 MMBtu/hr * EF lb/MMBtu) / 2000 lb/ton * (1-CE)

Where: 13.3 MMBtu/hr is the rating of the boiler

CE= 70% control efficiency for PM, PM₁₀, or PM_{2.5} only

EF = Emission Factor listed below:

Wood fired Boiler	EF	Units	Basis
NOx	0.49	lb/MMBtu	AP-42, 1.6
CO	0.6	lb/MMBtu	AP-42, 1.6

Wood fired Boiler	EF	Units	Basis
PM	0.4	lb/mmbtu	AP-42, 1.6
PM ₁₀	0.36	lb/mmbtu	AP-42, 1.6
PM _{2.5}	0.31	lb/mmbtu	AP-42, 1.6
SO ₂	0.025	lb/mmbtu	AP-42, 1.6
VOC	0.017	lb/mmbtu	AP-42, 1.6
HAP	1.03E-01	lb/mmbtu	AP-42, 1.6
Acenaphthene	9.10E-07	lb/mmbtu	AP-42, 1.6
Acenaphthylene	5.00E-06	lb/mmbtu	AP-42, 1.6
Acetaldehyde	8.30E-04	lb/mmbtu	AP-42, 1.6
Acetone	1.90E-04	lb/mmbtu	AP-42, 1.6
Acetophenone	3.20E-09	lb/mmbtu	AP-42, 1.6
Acrolein	4.00E-03	lb/mmbtu	AP-42, 1.6
Anthracene	3.00E-06	lb/mmbtu	AP-42, 1.6
Benzaldehyde	8.50E-07	lb/mmbtu	AP-42, 1.6
Benzene	4.20E-03	lb/mmbtu	AP-42, 1.6
Benzo(a)anthracene	6.50E-08	lb/mmbtu	AP-42, 1.6
Benzo(a)pyrene	2.60E-06	lb/mmbtu	AP-42, 1.6
Benzo(b)fluoranthene	1.00E-07	lb/mmbtu	AP-42, 1.6
Benzo(e)pyrene	2.60E-09	lb/mmbtu	AP-42, 1.6
Benzo(g,h,i)perylene	9.30E-08	lb/mmbtu	AP-42, 1.6
Benzo(j,k)fluoranthene	1.60E-07	lb/mmbtu	AP-42, 1.6
Benzo(k)fluoranthene	3.60E-08	lb/mmbtu	AP-42, 1.6
Benzoic acid	4.70E-08	lb/mmbtu	AP-42, 1.6
bis(2-Ethylhexyl)phthalate	4.70E-08	lb/mmbtu	AP-42, 1.6
Bromomethane	1.50E-05	lb/mmbtu	AP-42, 1.6
2-Butanone (MEK)	5.40E-06	lb/mmbtu	AP-42, 1.6
Carbazole	1.80E-06	lb/mmbtu	AP-42, 1.6
Carbon tetrachloride	4.50E-05	lb/mmbtu	AP-42, 1.6
Chlorine	7.90E-04	lb/mmbtu	AP-42, 1.6
Chlorobenzene	3.30E-05	lb/mmbtu	AP-42, 1.6
Chloroform	2.80E-05	lb/mmbtu	AP-42, 1.6
Chloromethane	2.30E-05	lb/mmbtu	AP-42, 1.6
2-Chloronaphthalene	2.40E-09	lb/mmbtu	AP-42, 1.6
2-Chlorophenol	2.40E-08	lb/mmbtu	AP-42, 1.6
Chrysene	3.80E-08	lb/mmbtu	AP-42, 1.6
Crotonaldehyde	9.90E-06	lb/mmbtu	AP-42, 1.6
Decachlorobiphenyl	2.70E-10	lb/mmbtu	AP-42, 1.6
Dibenzo(a,h)anthracene	9.10E-09	lb/mmbtu	AP-42, 1.6
1,2-Dibromoethene	5.50E-05	lb/mmbtu	AP-42, 1.6
Dichlorobiphenyl	7.40E-10	lb/mmbtu	AP-42, 1.6

Wood fired Boiler	EF	Units	Basis
1,2-Dichloroethane	2.90E-05	lb/mmmbtu	AP-42, 1.6
Dichloromethane	2.90E-04	lb/mmmbtu	AP-42, 1.6
1,2-Dichloropropane	3.30E-05	lb/mmmbtu	AP-42, 1.6
2,4-Dinitrophenol	1.80E-07	lb/mmmbtu	AP-42, 1.6
Ethylbenzene	3.10E-05	lb/mmmbtu	AP-42, 1.6
Fluoranthene	1.60E-06	lb/mmmbtu	AP-42, 1.6
Fluorene	3.40E-06	lb/mmmbtu	AP-42, 1.6
Formaldehyde	4.40E-03	lb/mmmbtu	AP-42, 1.6
Heptachlorobiphenyl	6.60E-11	lb/mmmbtu	AP-42, 1.6
Hexachlorobiphenyl	5.50E-10	lb/mmmbtu	AP-42, 1.6
Hexanal	7.00E-06	lb/mmmbtu	AP-42, 1.6
Heptachlorodibenzo-p-dioxins	2.00E-09	lb/mmmbtu	AP-42, 1.6
Heptachlorodibenzo-p-furans	2.40E-10	lb/mmmbtu	AP-42, 1.6
Hexachlorodibenzo-p-dioxins	1.60E-06	lb/mmmbtu	AP-42, 1.6
Hexachlorodibenzo-p-furans	2.80E-10	lb/mmmbtu	AP-42, 1.6
Hydrogen chloride	1.90E-02	lb/mmmbtu	AP-42, 1.6
Indeno(1,2,3,c,d)pyrene	8.70E-08	lb/mmmbtu	AP-42, 1.6
Isobutyraldehyde	1.20E-05	lb/mmmbtu	AP-42, 1.6
Methane	2.10E-02	lb/mmmbtu	AP-42, 1.6
2-Methylnaphthalene	1.60E-07	lb/mmmbtu	AP-42, 1.6
Monochlorobiphenyl	2.20E-10	lb/mmmbtu	AP-42, 1.6
Naphthalene	9.70E-05	lb/mmmbtu	AP-42, 1.6
2-Nitrophenol	2.40E-07	lb/mmmbtu	AP-42, 1.6
4-Nitrophenol	1.10E-07	lb/mmmbtu	AP-42, 1.6
Octachlorodibenzo-p-dioxins	6.60E-08	lb/mmmbtu	AP-42, 1.6
Octachlorodibenzo-p-furans	8.80E-11	lb/mmmbtu	AP-42, 1.6
Pentachlorodibenzo-p-dioxins	1.50E-09	lb/mmmbtu	AP-42, 1.6
Pentachlorodibenzo-p-furans	4.20E-10	lb/mmmbtu	AP-42, 1.6
Pentachlorobiphenyl	1.20E-09	lb/mmmbtu	AP-42, 1.6
Pentachlorophenol	5.10E-08	lb/mmmbtu	AP-42, 1.6
Perylene	5.20E-10	lb/mmmbtu	AP-42, 1.6
Phenanthrene	7.00E-06	lb/mmmbtu	AP-42, 1.6
Phenol	5.10E-05	lb/mmmbtu	AP-42, 1.6
Propanal	3.20E-06	lb/mmmbtu	AP-42, 1.6
Propionaldehyde	6.10E-05	lb/mmmbtu	AP-42, 1.6
Pyrene	3.70E-06	lb/mmmbtu	AP-42, 1.6
Styrene	1.90E-03	lb/mmmbtu	AP-42, 1.6
2,3,7,8-Tetrachlorodibenzo-p-dioxins	8.60E-12	lb/mmmbtu	AP-42, 1.6
Tetrachlorodibenzo-p-dioxins	4.70E-10	lb/mmmbtu	AP-42, 1.6
2,3,7,8-Tetrachlorodibenzo-p-furans	9.00E-11	lb/mmmbtu	AP-42, 1.6

Wood fired Boiler	EF	Units	Basis
Tetrachlorodibenzo-p-furans	7.50E-10	lb/mmbtu	AP-42, 1.6
Tetrachlorobiphenyl	2.50E-09	lb/mmbtu	AP-42, 1.6
Tetrachloroethene	3.80E-05	lb/mmbtu	AP-42, 1.6
o-Tolualdehyde	7.20E-06	lb/mmbtu	AP-42, 1.6
p-Tolualdehyde	1.10E-05	lb/mmbtu	AP-42, 1.6
Toluene	9.20E-04	lb/mmbtu	AP-42, 1.6
Trichlorobiphenyl	2.60E-09	lb/mmbtu	AP-42, 1.6
1,1,1-Trichloroethane	3.10E-05	lb/mmbtu	AP-42, 1.6
Trichloroethene	3.00E-05	lb/mmbtu	AP-42, 1.6
Trichlorofluoromethane	4.10E-05	lb/mmbtu	AP-42, 1.6
2,4,6-Trichlorophenol	2.20E-08	lb/mmbtu	AP-42, 1.6
Vinyl Chloride	1.80E-05	lb/mmbtu	AP-42, 1.6
Xylene	2.50E-05	lb/mmbtu	AP-42, 1.6
Antimony	7.90E-06	lb/mmbtu	AP-42, 1.6
Arsenic	2.20E-05	lb/mmbtu	AP-42, 1.6
Barium	1.70E-04	lb/mmbtu	AP-42, 1.6
Beryllium	1.10E-06	lb/mmbtu	AP-42, 1.6
Cadmium	4.10E-06	lb/mmbtu	AP-42, 1.6
Chromium, total	2.10E-05	lb/mmbtu	AP-42, 1.6
Chromium, hexavalent	3.50E-06	lb/mmbtu	AP-42, 1.6
Cobalt	6.50E-06	lb/mmbtu	AP-42, 1.6
Copper	4.90E-05	lb/mmbtu	AP-42, 1.6
Iron	9.90E-04	lb/mmbtu	AP-42, 1.6
Lead	4.80E-05	lb/mmbtu	AP-42, 1.6
Manganese	1.60E-03	lb/mmbtu	AP-42, 1.6
Mercury	3.50E-06	lb/mmbtu	AP-42, 1.6
Molybdenum	2.10E-06	lb/mmbtu	AP-42, 1.6
Nickel	3.30E-05	lb/mmbtu	AP-42, 1.6
Phosphorus	2.70E-05	lb/mmbtu	AP-42, 1.6
Potassium	3.90E-02	lb/mmbtu	AP-42, 1.6
Selenium	2.80E-06	lb/mmbtu	AP-42, 1.6
Silver	1.70E-03	lb/mmbtu	AP-42, 1.6
Sodium	3.60E-04	lb/mmbtu	AP-42, 1.6
Strontium	1.00E-05	lb/mmbtu	AP-42, 1.6
Tin	2.30E-05	lb/mmbtu	AP-42, 1.6
Titanium	2.00E-05	lb/mmbtu	AP-42, 1.6
Vanadium	9.80E-07	lb/mmbtu	AP-42, 1.6
Yttrium	3.00E-07	lb/mmbtu	AP-42, 1.6
Zinc	4.20E-04	lb/mmbtu	AP-42, 1.6

Wood Boiler PM emissions (ton/period) = Hours of Operation * (13.3 MMBtu/hr * 0.4 lb/MMBtu) / 2000 lb/ton * (0.3)

Wood Boiler PM₁₀ emissions (ton/month) = Hours of Operation * (13.3 MMBtu/hr * 0.36 lb/MMBtu) / 2000 lb/ton * (0.3)

Wood Boiler PM_{2.5} emissions (ton/month) = Hours of Operation * (13.3 MMBtu/hr * 0.31 lb/MMBtu) / 2000 lb/ton * (0.3)

Where: 13.3 MMBtu/hr is the rating of the boiler

0.4 lb/MMBtu is the emission factor for PM per AP-42

0.36 lb/MMBtu is the emission factor for PM₁₀ per AP-42

0.31 lb/MMBtu is the emission factor for PM_{2.5} per AP-42

0.3 = (1-70% control efficiency)

Unit 3

Truck Loading PM emissions (ton/period) = (Amount in pounds of wood waste loaded into trucks for the period) * (0.061 lb/ton / 2000 lb/ton)

Truck Loading PM₁₀ emissions (ton /period) = (Amount in pounds of wood waste loaded into trucks for the period) * (0.034 lb/ton / 2000 lb/ton)

Truck Loading PM_{2.5} emissions (ton /period) = (Amount in pounds of wood waste loaded into trucks for the period) * (0.0058 lb/ton / 2000 lb/ton)

Where: 0.061 lb/ton is the emission factor for PM per AP-42, 9.9-1

0.034 lb/ton is the emission factor for PM₁₀ per AP-42, 9.9-1

0.0058 lb/ton is the emission factor for PM_{2.5} per AP-42, 9.9-1

Unit 4

Spray Application of Wood Stabilizer VOC emissions (ton/period) = (Amount in gallons of stabilizer sprayed for the period) * (5.9 lb/gallon / 2000 lb/ton)

Unit 5

Cold Solvent Degreaser pollutant emissions (ton /period) = (Amount in gallons of solvent purchased) * (Pollutant content of Solvent in lb/gal / 2000 lb/ton)

Insignificant Activities

Diesel Tank VOC emissions assume 0.000085 tpy

Natural Gas Boiler pollutant emissions (Amount in millions of cubic feet of natural gas burned) * (EF lb/MMBtu / 2000 lb/ton), or assume the following tpy values

Where: EF = Emission Factor listed below with tpy values:

Natural Gas Boiler	EF	Units	Basis	TPY
NOx	100	lb/mmcf	AP-42, 1.4-1	0.54
CO	84	lb/mmcf	AP-42, 1.4-1	0.45
PM	0.52	lb/mmcf	2011 NEI, EPA	0.00281
PM ₁₀	0.52	lb/mmcf	2011 NEI, EPA	0.00281
PM _{2.5}	0.43	lb/mmcf	2011 NEI, EPA	0.00233
SO ₂	0.6	lb/mmcf	AP-42, 1.4-2	0.00
VOC	5.5	lb/mmcf	AP-42, 1.4-2	0.03
HAP	1.02E-02	lb/mmcf		0.0001
2-Methylnaphthalene	9.10E-07	lb/mmcf	AP-42, 1.4-3	4.92E-09
3-Methylchloranthrene	5.00E-06	lb/mmcf	AP-42, 1.4-3	2.71E-08
DMBA	8.30E-04	lb/mmcf	AP-42, 1.4-3	4.49E-06
Acenaphthene	1.90E-04	lb/mmcf	AP-42, 1.4-3	1.03E-06
Acenaphthylene	3.20E-09	lb/mmcf	AP-42, 1.4-3	1.73E-11
Anthracene	4.00E-03	lb/mmcf	AP-42, 1.4-3	2.16E-05
Benz(a)anthracene	3.00E-06	lb/mmcf	AP-42, 1.4-3	1.62E-08
Benzene	8.50E-07	lb/mmcf	AP-42, 1.4-3	4.60E-09
Benzo(a)pyrene	4.20E-03	lb/mmcf	AP-42, 1.4-3	2.27E-05
Benzo(b)fluoranthene	6.50E-08	lb/mmcf	AP-42, 1.4-3	3.52E-10
Benzo(g,h,i)perylene	2.60E-06	lb/mmcf	AP-42, 1.4-3	1.41E-08
Benzo(k)fluoranthene	1.00E-07	lb/mmcf	AP-42, 1.4-3	5.41E-10
Chrysene	2.60E-09	lb/mmcf	AP-42, 1.4-3	1.41E-11
Dibenzo(a,h)anthracene	9.30E-08	lb/mmcf	AP-42, 1.4-3	5.03E-10
Dichlorobenzene	1.60E-07	lb/mmcf	AP-42, 1.4-3	8.66E-10
Fluoranthene	3.60E-08	lb/mmcf	AP-42, 1.4-3	1.95E-10
Fluorene	4.70E-08	lb/mmcf	AP-42, 1.4-3	2.54E-10
Formaldehyde	4.70E-08	lb/mmcf	AP-42, 1.4-3	2.54E-10
Hexane	1.50E-05	lb/mmcf	AP-42, 1.4-3	8.12E-08
Indeno(1,2,3-cd)pyrene	5.40E-06	lb/mmcf	AP-42, 1.4-3	2.92E-08
Naphthalene	1.80E-06	lb/mmcf	AP-42, 1.4-3	9.74E-09
Phenanathrene	4.50E-05	lb/mmcf	AP-42, 1.4-3	2.43E-07
Pyrene	7.90E-04	lb/mmcf	AP-42, 1.4-3	4.27E-06
Toluene	3.30E-05	lb/mmcf	AP-42, 1.4-3	1.79E-07
Arsenic	2.80E-05	lb/mmcf	AP-42, 1.4-4	1.51E-07
Beryllium	2.30E-05	lb/mmcf	AP-42, 1.4-4	1.24E-07
Cadmium	2.40E-09	lb/mmcf	AP-42, 1.4-4	1.30E-11
Chromium, total	2.40E-08	lb/mmcf	AP-42, 1.4-4	1.30E-10
Chromium, hexavalent	8.16E-09	lb/mmcf	Engineering Judgement	4.42E-11
Cobalt	3.80E-08	lb/mmcf	AP-42, 1.4-4	2.06E-10
Lead	9.90E-06	lb/mmcf	AP-42, 1.4-2	5.36E-08
Manganese	2.70E-10	lb/mmcf	AP-42, 1.4-4	1.46E-12

Natural Gas Boiler	EF	Units	Basis	TPY
Mercury	9.10E-09	lb/mmcft	AP-42, 1.4-4	4.92E-11
Nickel	5.50E-05	lb/mmcft	AP-42, 1.4-4	2.98E-07
Selenium	7.40E-10	lb/mmcft	AP-42, 1.4-4	4.00E-12

Attachment B: Woodworking Equipment

Equipment Description	Make	Model	Date of Manufacture	Date of Install	Control
Roughing Planner	Newman	EPR-24	2004	2005	C2
Multi-Gang Rip Saw	Raimann	KR 450M	2004	2005	C2
Grinder	Vecoplan	VTH34/75	2003	2005	C2
Cut-off saw	Weinig	Opticut 450	2003	2005	C2
Cut-off saw	Weinig	Opticut 450	2003	2005	C2
Pop-up saw	Whirlwind	1000	1960s	2012	B
Swing saw	Heston & Anderson	55	1970s	2012	B
Rip saw	Mattison	404	1948	1960s	B
Belt sander	Ramco	37B/2	1960s	1960s	C2
Belt sander	Ramco	37T2/75	1960s	1960s	D
Waste wood mill	Mitts	15CRSC	1941	1940s	B
Rip saw	Mattison	404	1948	1960s	B
Router table	Northwood	NW-105-50	1995	2010	C2
Pop-up saw	Industrail	N510	1960s	1960s	D
Pop-up saw	Industrail	N510	1960s	1960s	D
Pop-up saw	Industrail	N510	1960s	1960s	D
Pop-up saw	Industrail	N510	1960s	1960s	D
Pop-up saw	Whirlwind	1000	1960s	2012	D
Rip saw	Mattison	404	1948	1960s	D
Finger Jointer	Industrail	FJS-25	1965	2012	D
Sander	Time Saver	TB 530-2	1966	1967	C
Swing saw	Heston & Anderson	55	1960s	1960s	B
Sander	DMC	CN110/3	1995	1995	B
Rip saw	Mattison	202	1948	1950s	B
Tenoner	Challoner	C-900PC	2004	2014	B
Tenoner	Challoner	900	1988	1989	B
Moulder	Ekstrom - Carlson	464A	1940s	1950s	B
Sander	TimeSaver	137-1HD	1970s	1970s	B
Sander	Ramco	25B/84	1960s	1960s	B
Tenoner	Balestrini	Nova 3	1990s	1990s	B
Tenoner	Balestrini	Nova 3	2000	2000	B
Moulder	Ekstrom - Carlson	464A	1940s	1950s	B
Moulder	Kentwood	M509S	2012	2012	B
Moulder	Ekstrom - Carlson	464A	1940s	1950s	B
Moulder	Ekstrom - Carlson	464A	1940s	1950s	B
Moulder	Kentwood	M609	2007	2007	D
Moulder	Kentwood	M509HD	2011	2011	D

Equipment Description	Make	Model	Date of Manufacture	Date of Install	Control
Band saw	Baker	BBR-0	1994	1994	B
Tenoner	Balestrini	Pico	2000	2014	B
Tenoner	Balestrini	Pico	1997	2014	B
Sliding table saw	Oliver	260-D	1960s	1960s	B
Shaper	Helma	SN 5917	1950s	1950s	B
Mortiser	Balestrini	Pragma	1990s	1990s	B
Mortiser	Rye	J/2	1960s	1960s	B
Mortiser	Rye	J/2	1960s	1960s	B
Mortiser	Rye	J/2	1960s	1960s	B
Mortiser	Rye	J/2	1960s	1960s	B
Pop-up saw	Whirlwind	1000-2R-2	1980s	1980s	B
Block sander	Mattison	138B	1970s	1970s	B
Belt sander	Ramco	37T2/75	1970s	1970s	B
Belt sander	Ramco	37B/2	1970s	1970s	B
Sliding table saw	EMA	KS-1400	1970s	1970s	B
Shaper	Helma	SN 8626	1950s	1950s	B
Shaper	Gomad	DFDK-5	1960s	1960s	B
Belt sander	Ekstrom - Carlson	112-A	1950s	1950s	B
Bore & Pin	Accu-System	custom	1980s	1980s	B
Moulder	Kentwood	509HD	2012	2013	B
Table saw	Towsky	2743	1950s	1950s	
Band saw	Mueller	C1800			N/A
Sander	Indiana	ASS112			N/A
Jointer	American	ASS119			N/A
Band saw	Oliver	ASS192			N/A
Band saw	jett	JWBS-14CS			N/A
Chop saw	Dewalt	780			N/A
Chop saw	Dewalt	715			N/A
Chop saw	Dewalt	715			N/A
Chop saw	Dewalt	782			N/A
Chop saw	Dewalt	715			N/A
Chop saw	Dewalt	715			N/A
Sander	Pedestal	A55			N/A
Sander	Voorwood	A111			N/A
Planer	Northwood	1P-15			N/A
Boring	Cemco	ASS 177			N/A
Band saw	Yates	B-1851			N/A
Jointer	American	ASS 246			N/A
Pin router	Imperial	ASS 216			N/A

Equipment Description	Make	Model	Date of Manufacture	Date of Install	Control
Pin router	Ekstom - Carlson	ASS 215			N/A
Radial arm saw	Dewalt	GA534			N/A
Drill prill	?	ASS 238			N/A
Boring	Sicotte	ASS252			N/A

Fee Comment

The company is required to pay annual fees.